Format No: CP/TF/01

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2018-04-11-01** **Date: 13-04-18** |
| **Customer** | : | Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Address** | : | Vidyaranyapura Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Improvements to roads and drains at Hosabalunagara main road in ward No.11 Kuvempunagara. |
| **Agency** | : | Executive Engineer, KRIDL, #280, 59th Cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560 010. |
| **Customer Reference** | : | BBMP/EE/BTP/WO/135/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 11-04-18 |
| **Sample ID No** | : | 2018-04-11-01 /02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 11-04-18 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken : 5000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 245 | 245 | 4.9 | 95.1 | 90-100 |
| 3 | 10 mm | 2675 | 2920 | 58.4 | 41.6 | 25-55 |
| 4 | 4.75 mm | 1798 | 4718 | 94.4 | 5.6 | 0-10 |
| 5 | Pan | 282 | 5000 | 100 | 0 | _ |



CIVIL PRO Sig..... Date..... BANGALORE

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## TEST REPORT ON COARSE AGGREGATES

**Lab ID** : **CP-2018-04-11-01** **Date: 13-04-18**

**Sample ID No** : 2018-04-11-01 /02(b)

### PHYSICAL PROPERTIES

| Sl.no | Tests | Result | Requirements as per IS:383-2016 |
|---|---|---|---|
| 1 | Flakiness Index(%) | 11.6 | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| 2 | Elongation Index(%) | 11.1 | |
| 3 | Specific Gravity | 2.66 | _ |
| 4 | Bulk Density(Loose) (Kg/l) | 1.54 | _ |
| 5 | Bulk Density(Compacted) (Kg/l) | 1.57 | _ |
| 6 | Water Absorption(%) | 0.25 | _ |
| 7 | Aggregate crushing Value(%) | 22.5 | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8 | Aggregate Impact Value(%) | 21.9 | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface. |

**Note:**

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

**FOR CIVIL Pro.**

CIVIL Pro Sig..... Date..... BANGALORE

**R KARTHIK RECHAN**
Authorized Signature
**Quality Manager**


*End of Report*